

Appendix: Version with Markings to Show Changes Made

The claims are amended as follows:

26.(Amended) A shape memory alloy catheter comprising:
a catheter body formed with a sidewall portion;
a shape memory alloy portion positioned adjacent the catheter sidewall portion
having a lattice network of individually configured shape memory alloy
micro-actuators;
connecting rings for separating the micro-actuators into segmented joints; and
an addressable thin-film heater element in communication with the shape memory
alloy portion for activation of selected micro-actuators. [The shape
memory alloy catheter as recited in claim 25] wherein the shape memory
alloy portion includes at least one micro-actuator that expands upon
heating by an addressable heater element and at least one micro-actuator
that contracts upon heating by another addressable heater element.

27.(Amended) The shape memory alloy catheter as recited in claim [23]26
wherein the shape memory alloy portion includes at least one addressable heater element
to heat a selected combination of at least one micro-actuator for varying the relative
stiffness of the shape memory alloy portion.

29.(Amended) The shape memory alloy catheter as recited in claim [23]26
wherein the shape memory alloy portion surrounds at least a portion of the catheter body.

30.(Amended) A shape memory alloy catheter comprising:
a catheter body formed with a sidewall portion;
a shape memory alloy portion positioned adjacent the catheter sidewall portion
having a lattice network of individually configured shape memory alloy
micro-actuators;
an addressable thin-film heater element in communication with the shape memory
alloy portion for activation of selected micro-actuators; and

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[The shape memory alloy catheter as recited in claim 23 further including] a micro-fabricated sensor.

32.(Amended) The shape memory alloy catheter as recited in claim [23]26 wherein the shape memory alloy is NiTi.

74.(Amended) A shape memory alloy catheter comprising:
a catheter body formed with a sidewall portion;
a shape memory alloy portion positioned adjacent the catheter sidewall portion
having a lattice network of individually configured shape memory alloy
micro-actuators;
an addressable thin-film heater element in communication with the shape memory
alloy portion for activation of selected micro-actuators; and

[The shape memory alloy catheter of claim 23 further including] a micro-fabricated transducer.

75.(Amended) The shape memory alloy catheter of claim [23]26 wherein at least two of the individually configured shape memory alloy micro-actuators are formed from a single piece of shape memory alloy material.